



Patent
Attorney's Docket No. 028723-385

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
Allan J. TOBIN et al.)	
Application No.: 10/641,149)	Group Art Unit: Unassigned
Filed: August 15, 2003)	Examiner: Unassigned
For: CLONED GLUMATIC ACID)	Confirmation No.: Unassigned
DECARBOXYLASE)	

**FIRST INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

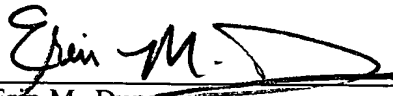
The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

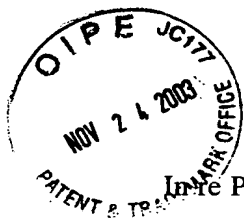
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: November 24, 2003

By:


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Inter Patent Application of

Allan J. TOBIN et al.

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DECARBOXYLASE

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) Confirmation No.: Unassigned

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Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

All of the listed publications were previously made of record in parent Application Serial No. 07/586,536 (including its interference file), filed September 21, 1990, upon which Applicants rely for the benefits provided in 35 U.S.C. § 120. Pursuant to 37 C.F.R. § 1.98(d), copies of the cited publications are not enclosed.

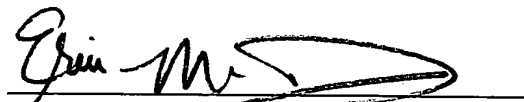
To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: November 24, 2003

By:


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Substitute for forms 1449A/PTO & 1449B/PTO

ATTORNEY'S DKT NO.
028723-385APPLICATION NO.
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Allan J. Tobin et al.FILING DATE
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STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	4,751,181		Keene	06-14-1988
	4,487,830		Coates et al.	12-11-1984
	5,792,620		Lernmark et al.	08-11-1998
	5,998,366		Tobin et al.	12-07-1999

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes	No
	0 383 129		Europe	08-22-1990		
	90/07117		International Publication	06-28-1990		
	92/05446		International Publication	04-02-1992		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	PERSSON, et al., Expression of the Neurotransmitter-Synthesizing Enzyme Glutamic Acid Decarboxylase in Male Germ Cells; Molecular and Cellular Biology, pp 4701-4711, Sept 1990, Vol. 10, No.9
	JULIEN, et al., Rat Brain Glutamic Acid Decarboxylase Sequence Deduced from a Cloned cDNA; Journal of Neurochemistry, 54:703-705, 1990.
	LEGAY, et al., Evidence for Two Distinct Forms of Native Glutamic Acid Decarboxylase in Rat Brain Soluble Extract: An Immunoblotting Study; Journal of Neurochemistry, 48:1022-1026, 1987
	MICHELSSEN, et al., Cloning, characterization, and autoimmune recognition of rat islet glutamic acid decarboxylase in insulin-dependent diabetes mellitus, Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 8754-8758, October 1991
	JULIEN, et al., Molecular Cloning, Expression and in situ Hybridization of Rat Brain Glutamic Acid Decarboxylase Messenger RNA; Neuroscience Letters, 73:173-180, 1987
	KOBAYASHI, et al., Glutamic Acid Decarboxylase cDNA: Nucleotide Sequence Encoding an Enzymatically Active Fusion Protein; The Journal of Neuroscience, 7(9):2768-2772, 1987.
	SOLIMENA, et al., Autoantibodies to Gaba-Ergic Neurons and Pancreatic Beta Cells In Stiff-Man Syndrome: The New England Journal of Medicine, Vol. 322, No. 22, pp. 1555-1560, May 1990
	BAEKESKOV, et al., Identification of the 65K Autoantigen in Insulin-Dependent Diabetes as the GABA-synthesizing Enzyme Glutamic Acid Decarboxylase; Nature, Vol. 347, 151-156, 1990.
	ATKINSON, et al., What Causes Diabetes? Scientific American, pp. 62-71, 1990.
	BAEKESKOV, et al., Revelation of Specificity of 64K Autoantibodies in IDDM Serums by High-Resolution 2-D Gel Electrophoresis; Diabetes, Vol. 38:1133-1141, 1989.
	BAEKESOV, et al., Autoantibodies in Newly Diagnosed Diabetic Children Immunoprecipitate Human Pancreatic Islet Cell Proteins; Nature, 298:167-169, 1982.
	BAEKESKOV, et al., Antibodies to a 64,000 M, Human Islet Cell Antigen Precede the Clinical Onset of Insulin-Dependent Diabetes; J. Clin. Invest., 79:926-934, 1987.
	CHANG, et al., Characterization of the Proteins Purified with Monoclonal Antibodies to Glutamic Acid Decarboxylase; The Journal of Neuroscience, 8(6):2123-2130, 1988
	ZIELGER, et al. Predicting Type I Diabetes; Diabetes Care, 13:762-775, 1990
	CHRISTIE, et al., Characterization of a cDNA Coding for Rat Glutamic Acid Decarboxylase; Molecular Brain Research 8:193-198, 1990
	ATKINSON, et al., 64000 M, Autoantibodies as predictors of Insulin-Dependent Diabetes; The Lancet, vol. 335:1357-1360, 1990
	CHRISTIE, et al., Cellular and Subcellular Localization of an M, 64,000 Protein Autoantigen in Insulin-Dependent Diabetes; The Journal of Biological Chemistry, 265(1) 376-381 (1990).
	KATAROVA, et al., Molecular Identification of the 62 kd Form of Glutamic Acid Decarboxylase from the Mouse; European Journal of Neuroscience, Vol. 2, No. 3, pp. 190-202, 1990.
	WYBORSKI, et al., Characterization of CDNA Coding for Rat Glutamic Acid Decarboxylase; Molecular Brain Research, 8:193-198, 1990.
	KAUFMAN, et al., Brain Glutamate Decarboxylase Cloned in Agt-11: Fusion Protein Produces γ -Aminobutyric Acid; Science, Vol. 232:1138-1140, 1986

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	BU, et al., Two Human Glutamate Decarboxylases, 65-kDa GAD and 67-kDa GAD, Are each Encoded by a Single Gene, Proceedings of the National Academy of Sciences, Vol. 89, No. 6, pp 2115-2119, 1992
	KARLSEN, et al., Cloning and Primary Structure of a Human Islet Isoform of Glutamic Acid Decarboxylase from Chromosome 10, Proceedings of the National Academy of Sciences, Vol. 88, No. 19, pp. 8337-8341, 1991
	KARLSEN, et al., Immune Recognition and Gene Expression of Islet Glutamic Acid Decarboxylase, Clinical Research, Vol. 39, No. 2, p. 173A, 1991
	Expression of Cloned Genes in Cultured Mammalian Cells, 16.1-16.56
	Detection and Analysis of Proteins Expressed from Cloned Genes, 18.1-18.26
	MULLIGAN et al., Selection for Animal Cells That Express the <i>Escherichia coli</i> Gene Coding for Xanthine-Guanine, Proceedings of the National Academy of Sciences, Vol. 78, No. 4, pp. 2072-2076, 1981
	KINGSMAN et al., The Production of Mammalian Proteins in <i>Saccharomyces cerevisiae</i> , T/BTECH, pp.53-57, 1987
	HOWELL et al., Vaccination Against Experimental Allergic Encephalomyelitis with T Cell Receptor Peptides, Science, Vol. 246, pp. 668-670, 1989
	WRAITH et al., Antigen Recognition in Autoimmune Encephalomyelitis and the Potential for Peptide-Mediated Immunotherapy, Cell, Vol. 59, pp. 247-255, 1989
	HUANG et al., Molecular Cloning and Amino Acid Sequence of Brain L-glutamate Decarboxylase, Proceedings of the National Academy of Sciences, Vol. 87, pp. 8491-8495, 1990
	BAKKESKOV et al., Autoantibodies to a 64-kilodalton Islet Cell Protein Precede the Onset of Spontaneous Diabetes in the BB Rat, Science, Vol. 224, pp. 1348-1350, 1984
	GERLING et al., Islet Cell and 64K Autoantibodies are Associated with Plasma IgG in Newly Diagnosed Insulin-Dependent Diabetic Children, Vol., 137, No. 12, pp. 3782-3785, 1986
	ATKINSON, et al. Autoantibodies in Nonobese Diabetic Mice Immunoprecipitate 64,000-M, Islet antigen, Diabetes, Vol. 37, pp. 1587-1590, 1988
	TUOMI et al., Antibodies to Glutamic Acid Decarboxylase Reveal Latent Autoimmune Diabetes Mellitus in Adults With a Non-Insulin-Dependent Onset of Disease, Diabetes, Vol. 42, pp. 359-362, 1993
	ZIMMET et al., Crucial Points at Diagnosis Type 2 diabetes or slow type 1 diabetes, Diabetes Care, Vol. 22, Supplement 2, pp. B59-B64, 1999
	SCHRANZ et al., Immunology in diabetes: an update, Diabetes Metab. Rev. Vol. 14, No. 1 pp. 3-29, 1998
	HAGOPIAN et al., Quantitative Assay Using Recombinant Human Islet Glutamic Acid Decarboxylase (GAD65) Shows That 64K Autoantibody Positivity at Onset Predicts Diabetes Type, J. Clin. Invest., Vol. 91, pp. 368-374, 1993
	ZIMMET et al., Antibodies to glutamic acid decarboxylase in the prediction of insulin dependency, Diabetes Res. Clin. Pract., Vol. 34, pp. S125-131, 1996
	ZIMMET et al., Latent autoimmune diabetes mellitus in adults (LADA): the role of antibodies to glutamic acid decarboxylase in diagnosis and prediction of insulin dependency, Diabet. Med. Vol. 11, No. 3, pp. 299-303, 1994 (abstract)

Examiner
SignatureDate
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.